SIEMENS

Data sheet

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SIMATIC S7-1200, Relay output SM 1226, F-DQ 2x RLY 5A, PROFIsafe, 70 mm overall width, up to PL E (ISO 13849-1)/ SIL3 (IEC 61508)

General information	
Product type designation	SM 1226, F-DQ 2x relay/5 A
Supply voltage	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
power supply according to NEC Class 2 required	No
Input current	
from backplane bus 5 V DC, max.	120 mA
Digital outputs	
from load voltage L+, max.	300 mA
Power loss	
Power loss, typ.	10 W
Digital outputs	
Number of digital outputs	2
Short-circuit protection	No
Output voltage	
 Rated value (DC) 	5 V DC to 30 V DC
Rated value (AC)	5 V AC to 250 V AC
Output current	
for signal "1" permissible range, max.	5 A maximum per circuit and 10 A maximum of all circuits per module
Relay outputs	
Number of relay outputs	2; 2 circuits per output
Switching capacity of contacts	
— with inductive load, max.	0.1 Hz, accordance with IEC 60947-5-1, DC-13; 2 Hz, accordance with IEC 60947-5-1, AC-15
— with resistive load, max.	2 Hz
Cable length	
shielded, max.	200 m
• unshielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnostics indication LED	
 for status of the outputs 	Yes
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
FM approval	Yes
Highest safety class achievable in safety mode	
Performance level according to ISO 13849-1	Category 4, PL e

SIL 3	
Probability of failure (for service life of 20 years and repair time of 100 hours)	
< 1.00E-05	
< 4.00E-09	
Ambient conditions	
0.3 m; five times, in product package	
Ambient temperature during operation	
0 °C	
55 °C	
5°C to 55°C, 3°C / minute	
Ambient temperature during storage/transportation	
-40 °C	
70 °C	
Air pressure acc. to IEC 60068-2-13	
660 hPa	
1 080 hPa	
Relative humidity	
95 %	
Mechanics/material	
Yes	
Dimensions	
70 mm	
100 mm	
75 mm	
Weights	
300 g	